

LISTING OF CLAIMS:

1. A motor comprising:

a yoke housing that rotatably ~~houses~~ supports an armature therein, wherein the armature has a rotatable shaft and a commutator;

a gear housing that is integrally assembled to the yoke housing and houses a speed reducing mechanism for decelerating rotation of the rotatable shaft;

a brush holder that holds brushes in slidable contact with the commutator and has a connecting portion; and

a connector ~~portion for supplying the brushes with~~ that supplies power from an external source to the brushes through a connecting portion of the connector, which is directly joined to the connecting portion of the brush holder at a location radially outward of an opening of the yoke housing to make electrical and mechanical connection with the connecting portion of the brush holder, wherein the connecting portion of the brush holder and the connecting portion of the connector are clamped between the yoke housing and the gear housing, wherein:

~~the brush holder has a holder side connecting portion;~~

~~the connector portion has a connector side connecting portion for electrical and mechanical connection with the holder side connecting portion; and~~

~~both the connecting portions are brought into connected state and clamped between the yoke housing and the gear housing.~~

2. The motor according to claim 1, wherein:

the yoke housing and the gear housing are assembled together in a direction of an axis of the rotatable shaft, and

the ~~holder-side~~ connecting portion of the brush holder and the ~~connector-side~~ connecting portion of the connector ~~portion~~ are connected with each other in a direction, ~~which coincides with a direction of assembly of both the housings~~ the direction of the axis of the rotatable shaft.

3. The motor according to claim 1, wherein the connector ~~portion~~ has a restraining portion for restraining movement in a direction, ~~which is~~ orthogonal to the rotatable shaft.

4. The motor according to claim 1, further comprising a plurality of fixing portions, which fix the yoke housing to the gear housing, wherein ~~both the connecting portions~~ the connecting portion of the brush holder and the connecting portion of the connector are positioned between at least two of the fixing portions.

5. The motor according to claim 1, wherein:

the brush holder has ~~holder-side~~ connecting terminals, and the connector ~~portion~~ has ~~connector-side~~ has connecting terminals, which are electrically connected for electrical connection with the holder-side connecting terminals of the brush holder; and

concurrently with mechanical connection of the connecting portion of the brush holder and the connecting portion of the connector ~~both the connecting portions~~, the ~~holder-side~~ connecting terminals of the brush holder and the ~~connector-side~~ connecting terminals of the connector are connected with each other, and thereby ~~both the connecting portions~~ the

connecting portion of the brush holder and the connecting portion of the connector are electrically connected with each other.

6. The motor according to claim 1, wherein at least one of the brush holder and the connector ~~portion~~ has a sealing member for sealing between the yoke housing and the gear housing.

7. The motor according to claim 1, wherein the connector ~~portion~~ includes a control portion, which is integrally provided in the connector ~~portion~~ and controls rotation of the motor.

8. The motor according to claim 1, wherein:

the connector ~~portion~~ has a first engaging portion; and

the gear housing has a second engaging portion, which is engaged with the first engaging portion in a ~~direction of connecting the holder side connecting portion with the connector side connecting portion~~ direction of an axis of the rotatable shaft.

9. A method for ~~the manufacture of~~ manufacturing a motor that has:

a yoke housing that rotatably supports ~~houses~~ an armature therein, wherein the armature has a rotatable shaft and a commutator;

a gear housing that is integrally assembled to the yoke housing and houses a speed reducing mechanism for decelerating the rotation of the rotatable shaft;

a brush holder that holds brushes in slidable contact with the commutator and has a ~~holder-side~~ connecting portion; and

a connector ~~portion~~ that has a ~~connector-side~~ connecting portion for electrical and mechanical connection with the ~~holder-side~~ connecting portion of the brush holder and is for supplying the brushes with power from an external source, wherein:

the connector ~~portion~~ has a first engaging portion; and

the gear housing has a second engaging portion to be engaged with the first engaging portion ~~in a direction of connecting the holder-side connecting portion with the connector-side connecting portion~~, the method comprising:

engaging the first engaging portion of the connector ~~portion~~ with the second engaging portion of the gear housing to engage the connector portion with the gear housing; and

clamping ~~both the connecting portions~~ the connecting portion of the brush holder and the connecting portion of the connector between the yoke housing and the gear housing ~~while the holder-side connecting portion and the connector-side connecting portion are connected with each other~~ in a manner such that the connecting portion of the brush holder and the connecting portion of the connector are joined together to form the electrical and mechanical connection at a location radially outward of an opening of the yoke housing.

10. (New) The motor according to claim 1, wherein:

the yoke housing and the gear housing are secured to each other by a plurality of screws;
and

two of the plurality of screws are positioned adjacent to the connecting portion of the brush holder and the connecting portion of the connector to securely hold the connecting portion of the brush holder and the connecting portion of the connector between the yoke housing and the gear housing.

11. (New) The motor according to claim 1, wherein the gear housing has a recess, which is located radially outward of the opening of the yoke housing and receives the connecting portion of the brush holder and the connecting portion of the connector.

12. (New) The motor according to claim 1, wherein an entire radial extent of the connector is displaced from the opening of the yoke housing in a radial direction of the rotatable shaft.